

<b>Exploring Aeronautics</b>			
<b>2009 Mathematics</b>			
<b>Standards of Learning</b>			
<b>Virginia Mathematics</b>			
<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Integrating with Aeronautics	VA	MA.5.5.8.d	estimate and then measure to solve problems, using U.S. Customary and metric units; and
Integrating with Aeronautics	VA	MA.5.5.15	The student, given a problem situation, will collect, organize, and interpret data in a variety of forms, using stem-and-leaf plots and line graphs.
Integrating with Aeronautics	VA	MA.5.5.18.b	write an open sentence to represent a given mathematical relationship, using a variable;
Scientific Method(124-144)	VA	MA.5.5.16.d	describe the range of a set of data as a measure of variation.
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<b>2009 Mathematics</b>			
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<b>Virginia Mathematics</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Wings(177-208)	VA	MA.6.6.10.d	describe and determine the volume and surface area of a rectangular prism.
Integrating with Aeronautics	VA	MA.6.6.6.a	multiply and divide fractions and mixed numbers; and
Integrating with Aeronautics	VA	MA.6.6.14.c	compare and contrast graphs that present information from the same data set.
Scientific Method(124-144)	VA	MA.6.6.14.b	draw conclusions and make predictions, using circle graphs; and
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<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Integrating with Aeronautics	VA	MA.7.7.2	The student will describe and represent arithmetic and geometric sequences, using variable expressions.
Integrating with Aeronautics	VA	MA.7.7.4	The student will solve single-step and multistep practical problems, using proportional reasoning.
Integrating with Aeronautics	VA	MA.7.7.11.b	compare and contrast histograms with other types of graphs presenting information from the same data set.
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<b>2009 Mathematics</b>			
<b>Standards of Learning</b>			
<b>Virginia Mathematics</b>			
<b>Grade 8</b>			

Activity/Lesson	State	Standards	
Fundamentals of Aeronautics (145-176)	VA	MA.8.8.6.a	verify by measuring and describe the relationships among vertical angles, adjacent angles, supplementary angles, and complementary angles; and
Fundamentals of Aeronautics (145-176)	VA	MA.8.8.13.a	make comparisons, predictions, and inferences, using information displayed in graphs; and
Integrating with Aeronautics	VA	MA.8.8.1.b	compare and order decimals, fractions, percents, and numbers written in scientific notation.
Integrating with Aeronautics	VA	MA.8.8.3.a	solve practical problems involving rational numbers, percents, ratios, and proportions; and